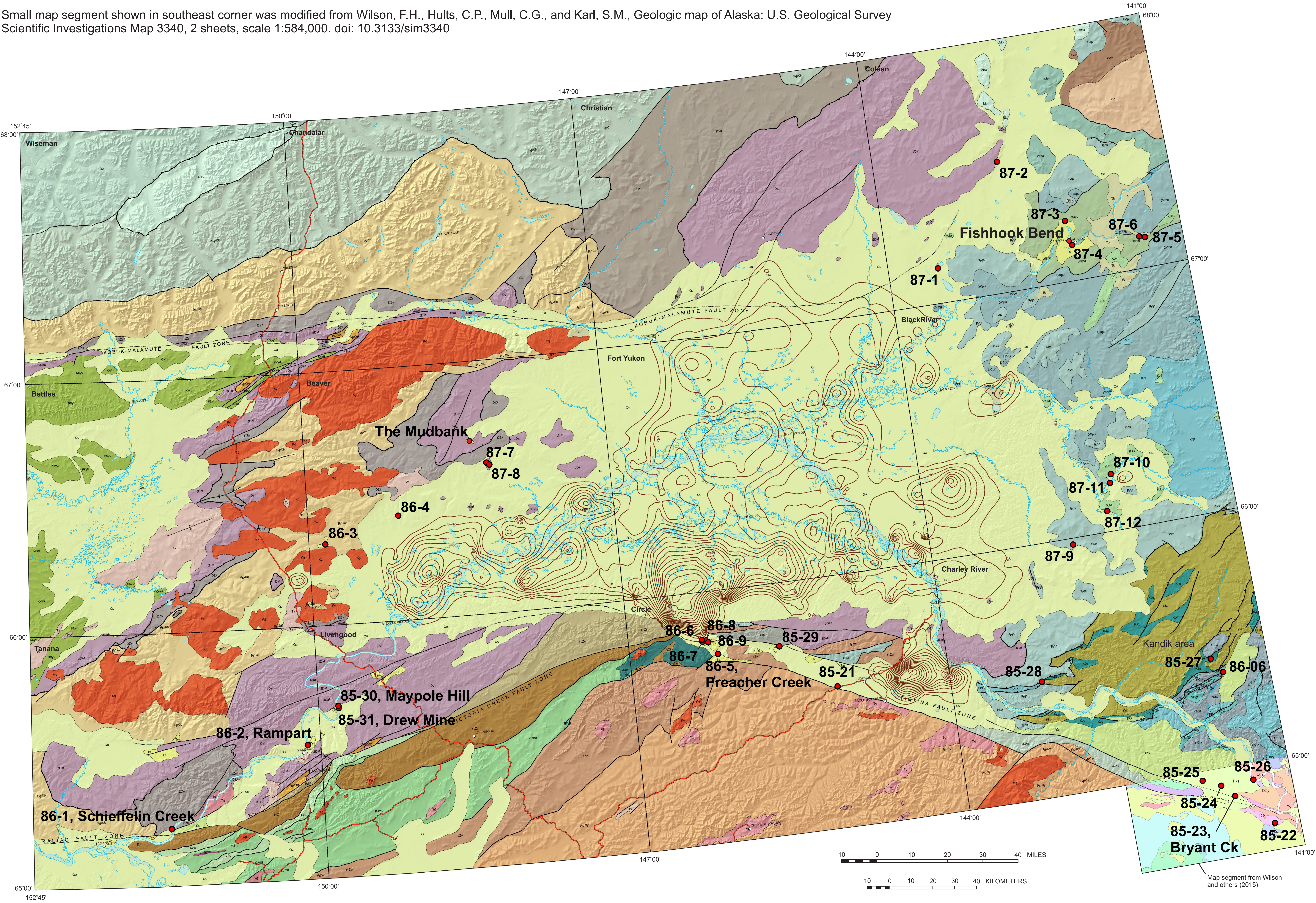


Modified from Till, A. B., Dumoulin, J.A., Phillips, J.D., Stanley, R.G., and Crews, J., 2006, Generalized bedrock geologic map, Yukon Flats region, east-central Alaska: U.S. Geological Survey Open-File Report 2006-1304, 1 sheet, scale 1:500,000. <http://pubs.usgs.gov/of/2006/1304/>

Small map segment shown in southeast corner was modified from Wilson, F.H., Hults, C.P., Mull, C.G., and Karl, S.M., Geologic map of Alaska: U.S. Geological Survey Scientific Investigations Map 3340, 2 sheets, scale 1:584,000. doi: 10.3133/sim3340



LIST OF MAP UNITS

MAP UNITS FROM TILL AND OTHERS (2006)	
UNITS PRESENT IN MORE THAN ONE PROVINCE	
Qu	Unconsolidated and poorly consolidated sediments (Quaternary)
Tb	Basalt flows and rare cinder cones (Tertiary)
Tg	Granitic rocks (Tertiary)
Ts	Clastic sedimentary rocks (Tertiary)
TKs	Sedimentary rocks (Tertiary and Cretaceous)
Kg	Granitic rocks (Cretaceous)
TpGt	Glenn Shale, lower part, Tahkandit Limestone, undivided Triassic and Permian
JDat	Angayucham-Tozitna terrane, undivided (Early Jurassic to Devonian)
BROOKS RANGE PROVINCE	
Tv	Volcanic rocks
Kkyu	Sedimentary rocks of the Yukon-Koyukuk basin, undivided (Cretaceous)
KDe	Sedimentary rocks of the Endicott Mountains allochthon (Cretaceous to Devonian)
TpZd	Metasedimentary, metavolcanic, and sedimentary rocks of the Doonerak Window (Triassic to lower Paleozoic)
Mbu	Brooks Range sequence, undivided (Mississippian)
Pzvu	Sedimentary rocks of the Venetie terrane, undivided (Paleozoic)
DZs	Metamorphosed sedimentary rocks (Devonian to Proterozoic)
PzpCm	Metamorphic rocks (Paleozoic? and (or) Precambrian?)
PzpCb	Metasedimentary and metaigneous rocks of the southern Brooks Range and Ruby geanticline (Paleozoic and (or) Precambrian)
PzpCh	Metasedimentary and metaigneous rocks of the Hammon terrane (Paleozoic and (or) Precambrian)
PORCUPINE PROVINCE	
Kku	Sedimentary rocks of the Kandik basin, undivided (Cretaceous)
KJg	Glenn Shale, upper part (Early Cretaceous and Jurassic?)
KJu	Sedimentary rocks, undifferentiated (Cretaceous? and Jurassic?)
JMsu	Strangle Women Creek sequence, undivided (Jurassic to Mississippian)
Cg	Granite and quartz monzonite (Carboniferous)
Pzcm	Metamorphic rocks (Paleozoic?)
Pzqs	Sedimentary and igneous rocks (Paleozoic?)
JMpu	Younger strata of the Porcupine River sequence, undivided (Jurassic to Mississippian)
DCpu	Older strata of the Porcupine River sequence, undivided (Devonian to Cambrian)
PCla	Sedimentary rocks of the Tatonduk area (Permian to Cambrian)
Cpt	Sedimentary rocks of the Tindir Group (Cambrian? and Proterozoic)
YUKON-TANANA PROVINCE	
KJmu	Sedimentary rocks of the Manley basin, undivided (Lower Cretaceous and Jurassic)
Mzmw	Fine-grained sedimentary rocks and tuff (Mesozoic)
TPs	Sedimentary rocks (Triassic(?) to Early Permian)
MzPza	Low-grade metamorphic rocks (Mesozoic? and (or) Paleozoic?)
DSc	Metamorphosed sedimentary rocks (Devonian and Silurian)
Pzum	Ultramafic rocks (Paleozoic?)
PzZs	Sedimentary and igneous rocks corresponding to the older parts of the Schwatka-Rampart area sequence (Paleozoic to Proterozoic)
PzZl	Sedimentary and igneous rocks corresponding to the Livengood area sequence (Paleozoic to Proterozoic)
PzZw	Sedimentary and igneous rocks corresponding to the older parts of the Fairbanks-White Mountains area (Paleozoic to Proterozoic)
PzpCy	Metamorphic rocks of the Yukon-Tanana Upland, undivided (Paleozoic to Precambrian?)
SELECTED MAP UNITS FROM WILSON AND OTHERS (2015)	
QTs	Poorly consolidated surficial deposits (Quaternary, Pleistocene, and uppermost Tertiary)
TKs	Conglomerate, sandstone, and lignite (lower Tertiary to upper Cretaceous)
Tcb	Coal-bearing sedimentary rocks (Tertiary, Pliocene to Eocene?)
JZu	Mafic and ultramafic rocks in central, western, and northern Alaska (Jurassic to late Proterozoic)
DZyf	Clastic and carbonate rock of Yukon Flats basin (Devonian to Neoproterozoic)
Ev	Basalt and red beds member (Tindir Group) and Mount Copleston volcanic rocks (Proterozoic)
<hr/> Contact; depositional, intrusive, or metamorphic	
<hr style="border-top: 1px dashed black;"/> Fault; dashed where thought to be present in the subsurface	
Thrust fault; teeth on structurally higher side	
Antiform	Synform; axis plunging west
Contours in meters representing depth to basement, interpreted inverted gravity model (Phillips, unpub. data)	
Road	
Town or settlement	85-25 Core hole and core hole number

Figure 1.